REMARKS

The Office Action dated April 21, 2006 and the Advisory Action dated June 23, 2006 have been received and considered. Reconsideration of the outstanding rejection in the present application is respectfully requested based on the amendments and following remarks,

Clams 1-9

Claims 1-9 have been canceled without prejudice.

Claim 10

Claim 10 has been amended to clarify that the recited scaling cycle represents a scaling operation that is repeated such that each scaling cycle accesses a common set of filter phases to scale the number of input pixels to obtain a number of output pixels, where the number of input pixels in the scaling cycle is equal to an input resolution divided by a GCD and a number of output pixels in the scaling cycle is equal to an output resolution divided by the GCD, where the GCD is the greatest common divisor of the input resolution and output resolution.

Claim 10 as amended recites incrementing a current phase location <u>within a scaling cycle</u> by a first variable to obtain a first adjusted value, the first variable indicative of a number of input pixels in the scaling cycle. In the Advisory Action, the Examiner relies upon incrementing as disclosed at column 2 of Greggain as disclosing incrementing as recited at claim 10. Applicant respectfully disagree with this characterization.

Claim 10 recites incrementing a current phase location within a scaling cycle by a first variable <u>that is indicative of a number of input pixels in the scaling cycle.</u> As amended, and supported by the specification, the number of input pixels is equal to the input resolution, e.g. the number of input pixels in a row, divided by a greatest common divisor (GCD) of the input resolution and the output resolution. For reference purpose, the specification provides a specific example where the number of input pixels in the scaling cycle is 45. The language of claim 10 requires that a first adjusted value is obtained by incrementing the current phase by a first variable indicative of the number of input pixels. For reference purposes, block 322 of the

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specification obtains an adjusted (an updated current phase value) by incrementing the existing current phase by the value M, where M is the number of input pixels, e.g. 45 in the current example. Greggain does not disclose incrementing based upon a variable indicative of a number of input pixels as recited in claim 10. Instead, referring to column 2 of Greggain as relied upon by the Examiner in the Advisory Action, an upsample increment generator is disclosed that corresponds to element 30 of FIG. 2 of Greggain. The increment generator 30 of Greggain increments by a filter factor that is described in Greggain as a user defined increment, not the number of input pixels as recited in claim 10.

Parker does not discuss incrementing. Therefore, incrementing based upon a variable indicative of a number of input pixels as recited in claim 10 is necessarily non-obvious over the combination of Parker and Greggain. Withdrawal of the rejection of claim 10 based on section 103 is therefore respectfully requested. Withdrawal of the rejection of claims 11-17 is also requested by virtue of their dependency from claim 10, and further by virtue of claims 11-17 being rejected under section 103 by identical references as claim 10.

Claims 16-18

Claims 16-18 have been amended to recite limitations similar to claim 10 and are non-obvious over the combination of Parker and Greggain for the same reasons as claim 10.

Claims 19-21

Claims 19-21 have been added. Claim 19 recites storing more than the needed number of filter phases. Parker discloses determining the needed phases for a given input and output raster image, which is different that the recitation of claim 19, which stores more than the needed number of filter phases. Greggain does not disclose determining, based on a number of output pixels per scaling cycle and the number of available phases, a number of used phases N used during a scaling cycle. For at least this reason, claims 19-21 are allowable over the art of record.

Conclusion

The Applicant respectfully submits that the present application is in condition for allowance, and an early indication of the same is courteously solicited. The Examiner is

respectfully requested to contact the undersigned by telephone at the below listed telephone number in order to expedite resolution of any issues and to expedite passage of the present application to issue, if any comments, questions, or suggestions arise in connection with the present application.

The Commissioner is hereby authorized to charge any fees that may be required, or credit any overpayment, to Deposit Account Number 50-1835.

Respectfully submitted,

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